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☐ 1. Document ID: US 6320069 B1

L4: Entry 1 of 3

File: USPT

Nov 20, 2001

US-PAT-NO: 6320069

DOCUMENT-IDENTIFIER: US 6320069 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Production of optically active ketone

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 5451687 A

L4: Entry 2 of 3

File: USPT

Sep 19, 1995

US-PAT-NO: 5451687

DOCUMENT-IDENTIFIER: US 5451687 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Process for producing O,O'-diacyltartaric anhydride and process for producing O,O'-diacyltartaric acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 4275217 A

L4: Entry 3 of 3

File: USPT

Jun 23, 1981

US-PAT-NO: 4275217

DOCUMENT-IDENTIFIER: US 4275217 A

TITLE: Process for the preparation of optically active .alpha.-amino acids and their derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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L1 and 560/\$

3

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<http://www.cas.org/infopolicy.html>

=> s diacyltartaric acid  
20 DIACYLTARTARIC  
4203034 ACID  
L1 8 DIACYLTARTARIC ACID  
(DIACYLTARTARIC(W)ACID)

=> s l1 and amine  
269757 AMINE  
L2 3 L1 AND AMINE

=> s l2 and resol?  
520966 RESOL?  
L3 1 L2 AND RESOL?

=> d ibib abs hitstr

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:606431 CAPLUS

DOCUMENT NUMBER: 141:140193

TITLE: Processes for the recovery of optically active  
diacyltartaric acids

INVENTOR(S): Morii, Seiji; Fujino, Toshihiro; Sato, Haruyo

PATENT ASSIGNEE(S): Toray Fine Chemicals Co., Ltd., Japan

SOURCE: PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004063141	A1	20040729	WO 2003-JP16474	20031222
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003289487	A1	20040810	AU 2003-289487	20031222
EP 1586551	A1	20051019	EP 2003-780993	20031222
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
CN 1738791	A	20060222	CN 2003-80108907	20031222
US 2006058546	A1	20060316	US 2005-542498	20050715
PRIORITY APPLN. INFO.:			JP 2003-8023	A 20030116
			WO 2003-JP16474	W 20031222

OTHER SOURCE(S): CASREACT 141:140193

AB Disclosed is a process of subjecting either a salt of an amine with an optically active diacyltartaric acid or a diastereomeric salt of an optically active amine with an optically active diacyltartaric acid which is obtained by optical resoln. of a racemic amine by use of an optically active diacyltartaric acid to salt exchange with an aqueous acid solution, wherein an optically active diacyltartaric acid is preliminarily added to the aqueous acid solution Also disclosed is a process which comprises subjecting a raw material containing a racemic



amine and an optically active diacyltartaric acid to optical resoln. to recover one of the diastereomeric salts of optical isomers of the amine with the optically active diacyltartaric acid, treating the recovered diastereomeric salt with an aqueous acid solution to which an optically active diacyltartaric acid has been preliminarily added to recover a free optically active diacyltartaric acid, and recycling the free optically active diacyltartaric acid to the optical resoln. step as the raw material. This process efficiently recovers optically active diacyltartaric acid which can be recycled for as resolving agent in preparation of optically active amines. Thus, 1,2-diaminopropane 14.8, di-p-toluoyl-D-tartaric acid (optical purity 99.5% e.e.) 40.4, and 35% aqueous HCl solution 18.8 g were warmed to 60° with stirring, dissolved, cooled to 25°, and filtered to give a diastereomer salt (37.5 g) and a filtrate mother liquor (203.5 g). The diastereomer salt (76% e.e. 1,2-diaminopropane) was recrystd. for H2O to give 20.8 g of the diastereomer salt (98.5% e.e. 1,2-diaminopropane). Di-p-toluoyl-D-tartaric acid (0.5 g) was added to a mixture of 6.7 g 95% H2SO4 and 115 g H2O with stirring to form a slurry followed by adding 0.5 g of the diastereomer salt, and the resulting mixture was stirred for 10 min. After confirming the crystallization of di-p-toluoyl-D-tartaric acid by salt exchange reaction, 20.8 g of the diastereomer salt was added portionwise over 1 h and the stirring was continued for another 2 h. The precipitated crystals were filtered and dried to give 17.6 g di-p-toluoyl-D-tartaric acid (98.0% recovery yield and 99.5% optical purity).

=> d 12 1-3 ibib abs hitstr

L2 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:606431 CAPLUS

DOCUMENT NUMBER: 141:140193

TITLE: Processes for the recovery of optically active diacyltartaric acids

INVENTOR(S): Morii, Seiji; Fujino, Toshihiro; Sato, Haruyo

PATENT ASSIGNEE(S): Toray Fine Chemicals Co., Ltd., Japan

SOURCE: PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004063141	A1	20040729	WO 2003-JP16474	20031222
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003289487	A1	20040810	AU 2003-289487	20031222
EP 1586551	A1	20051019	EP 2003-780993	20031222
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
CN 1738791	A	20060222	CN 2003-80108907	20031222



US 2006058546 A1 20060316 US 2005-542498 20050715  
PRIORITY APPLN. INFO.: JP 2003-8023 A 20030116  
WO 2003-JP16474 W 20031222

OTHER SOURCE(S): CASREACT 141:140193

AB Disclosed is a process of subjecting either a salt of an amine with an optically active diacyltartaric acid or a diastereomeric salt of an optically active amine with an optically active diacyltartaric acid which is obtained by optical resolution of a racemic amine by use of an optically active diacyltartaric acid to salt exchange with an aqueous acid solution, wherein an optically active diacyltartaric acid is preliminarily added to the aqueous acid solution. Also disclosed is a process which comprises subjecting a raw material containing a racemic amine and an optically active diacyltartaric acid to optical resolution to recover one of the diastereomeric salts of optical isomers of the amine with the optically active diacyltartaric acid, treating the recovered diastereomeric salt with an aqueous acid solution to which an optically active diacyltartaric acid has been preliminarily added to recover a free optically active diacyltartaric acid, and recycling the free optically active diacyltartaric acid to the optical resolution step as the raw material. This process efficiently recovers optically active diacyltartaric acid which can be recycled for as resolving agent in preparation of optically active amines. Thus, 1,2-diaminopropane 14.8, di-p-toluoyl-D-tartaric acid (optical purity 99.5% e.e.) 40.4, and 35% aqueous HCl solution 18.8 g were warmed to 60° with stirring, dissolved, cooled to 25°, and filtered to give a diastereomer salt (37.5 g) and a filtrate mother liquor (203.5 g). The diastereomer salt (76% e.e. 1,2-diaminopropane) was recrystd. for H<sub>2</sub>O to give 20.8 g of the diastereomer salt (98.5% e.e. 1,2-diaminopropane). Di-p-toluoyl-D-tartaric acid (0.5 g) was added to a mixture of 6.7 g 95% H<sub>2</sub>SO<sub>4</sub> and 115 g H<sub>2</sub>O with stirring to form a slurry followed by adding 0.5 g of the diastereomer salt, and the resulting mixture was stirred for 10 min. After confirming the crystallization of di-p-toluoyl-D-tartaric acid by salt exchange reaction, 20.8 g of the diastereomer salt was added portionwise over 1 h and the stirring was continued for another 2 h. The precipitated crystals were filtered and dried to give 17.6 g di-p-toluoyl-D-tartaric acid (98.0% recovery yield and 99.5% optical purity).

L2 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:71859 CAPLUS

DOCUMENT NUMBER: 136:112680

TITLE: 2,3-Diacyltartaric acid salts of  
E-metanicotine for treatment of central nervous system disorders

INVENTOR(S): Dull, Gary Maurice

PATENT ASSIGNEE(S): Targacept, Inc., USA

SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002005801	A2	20020124	WO 2001-US40689	20010504
WO 2002005801	A3	20020808		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,			



VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6743812 B1 20040601 US 2000-616187 20000714  
 CA 2415906 AA 20020124 CA 2001-2415906 20010504  
 EP 1317267 A2 20030611 EP 2001-935766 20010504  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
 BR 2001012131 A 20030902 BR 2001-12131 20010504  
 JP 2004503589 T2 20040205 JP 2002-511734 20010504  
 ZA 2003000132 A 20040406 ZA 2003-132 20030106  
 NO 2003000156 A 20030313 NO 2003-156 20030113

PRIORITY APPLN. INFO.: US 2000-616187 A 20000714  
 WO 2001-US40689 W 20010504

AB Patients susceptible to or suffering from conditions and disorders, such as central nervous system disorders, are treated by administering to a patient in need thereof compns. that are 2,3-diacyltartaric acid salts of E-metanicotine. Examples are given for determination of binding to relevant receptor sites and preparation of (2S)-(4E)-N-methyl-5-[3-(5-isopropoxy-pyridin)yl]-4-penten-2-amine hemi(di-p-toluoyl-L-tartrate).

L2 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:71856 CAPLUS

DOCUMENT NUMBER: 136:112679

TITLE: 2,3-Diacyltartaric acid salts of  
 nicotinic compounds for treatment of central nervous  
 system disorders

INVENTOR(S): Dull, Gary Maurice; Leconte, Jean-Pierre; Kabir,  
 Humayun

PATENT ASSIGNEE(S): Targacept, Inc., USA; Aventis Pharma S.A.

SOURCE: PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002005798	A2	20020124	WO 2001-US21872	20010711
WO 2002005798	A3	20030313		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6432954	B1	20020813	US 2000-616743	20000714
CA 2415901	AA	20020124	CA 2001-2415901	20010711
AU 2002022909	A5	20020130	AU 2002-22909	20010711
EP 1311265	A2	20030521	EP 2001-984212	20010711
EP 1311265	B1	20041229		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
BR 2001012130	A	20030902	BR 2001-12130	20010711
JP 2004509851	T2	20040402	JP 2002-511731	20010711
NZ 523606	A	20041224	NZ 2001-523606	20010711
AT 285773	E	20050115	AT 2001-984212	20010711
CN 1680326	A	20051012	CN 2005-10054159	20010711



ZA 2003000135	A	20040406	ZA 2003-135	20030106
NO 2003000155	A	20030313	NO 2003-155	20030113
AU 2006202005	A1	20060601	AU 2006-202005	20060512
PRIORITY APPLN. INFO.:			US 2000-616743	A 20000714
			CN 2001-812792	A3 20010711
			WO 2001-US21872	W 20010711

AB Patients susceptible to or suffering from conditions and disorders, such as central nervous system disorders, are treated by administering to a patient in need thereof compns. that are 2,3-diacyltartaric acid salts of nicotinic compds., and particularly, nicotinic compds. that are characterized as aryl substituted amines (e.g., aryl substituted olefinic amines). Examples are given for determination of binding to relevant receptor sites and preparation of (2S)-(4E)-N-methyl-5-[3-(5-isopropoxy-pyridin)yl]-4-penten-2-amine hemi(di-p-toluoyl-L-tartrate).

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## Refine Search

### Search Results -

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Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L4





### Search History

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 result set

DB=USPT; PLUR=YES; OP=ADJ

L4    11 and 560/\$    3    L4

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

L3    salt adj7 diacyltartaric acid and amine    5    L3

L2    diacyltartaric acid.ti. and 11    4    L2

L1    diacyltartaric acid and amine    20    L1

END OF SEARCH HISTORY